CA1: 358219.1

## IN THE CLAIMS:

Rewrite the pending claims and add new claims as follows:

## 1-27. (Canceled)

28. (Currently amended) A method of fabricating a staggered torsional electrostatic combdrive, said method comprising the steps of:

deep trench etching a stationary combteeth assembly in a first wafer;

bonding a second wafer to said first wafer to form a sandwich including said first wafer, an oxide layer, and said second wafer;

forming a moving combteeth assembly in said second wafer, said moving combteeth assembly including a paddle and a torsional hinge, said moving combteeth assembly being separated from said first wafer by said oxide layer; and

<u>after said forming</u>, removing exposed portions <u>of</u> said oxide layer to release said staggered torsional electrostatic combdrive moving combteeth assembly.

- 29. (Currently Amended) The method of claim 28 wherein said forming step-includes a first step of etching an external surface oxide layer and a second step of etching said second wafer to form said moving combteeth assembly.
- 30. (Currently Amended) The method of claim 28 further comprising the step of A method of fabricating a staggered torsional electrostatic combdrive, said method comprising:

deep trench etching a stationary combteeth assembly in a first wafer;

bonding a second wafer to said first wafer to form a sandwich including said first wafer, an oxide layer, and said second wafer;

forming a moving combteeth assembly in said second wafer, said moving combteeth assembly including a paddle and a torsional hinge, said moving combteeth assembly being separated from said first wafer by said oxide layer;

after said forming, removing exposed portions of said oxide layer to release said moving combteeth assembly; and

depositing a reflective film on said paddle.

31. (New) The method of claim 28 further comprising depositing a multilayer optical filter on said paddle.

- 32. (New) The method of claim 28 wherein the deep trench etching includes etching 100-micron-deep trenches using a deep reactive-ion etcher.
- 33. (New) The method of claim 28 further comprising polishing the second wafer after the bonding to leave a predetermined thickness of the second wafer above the oxide layer.
- 34. (New) The method of claim 33 further comprising oxidizing the first wafer and the second wafer after the bonding.
- 35. (New) The method of claim 28 further comprising forming an alignment window in the second wafer.
- 36. (New) The method of claim 36 further comprising aligning the stationary combteeth assembly and the moving combteeth assembly.
- 37. (New) The method of claim 28 further comprising etching a backside hole in the first wafer, wherein the backside hole exposes the paddle.
- 38. (New) The method of claim 37, further comprising depositing an aluminum film on the paddle through the backside hole in the first wafer.
- 39. (New) The method of claim 28, wherein the removing includes removing a sacrificial portion of the oxide layer, the sacrificial portion including portions of the oxide layer under the moving combteeth assembly and paddle.
- 40. (New) The method of claim 28 further comprising attaching a transparent plate to an outer surface of the staggered torsional electrostatic combdrive.
- 41. (New) The method of claim 30 wherein said forming includes first etching an external surface oxide layer and second etching said second wafer to form said moving combteeth assembly.
- 42. (New) The method of claim 30 wherein the deep trench etching includes etching 100-micron-deep trenches using a deep reactive-ion etcher.

- 43. (New) The method of claim 30 further comprising polishing the second wafer after the bonding to leave a predetermined thickness of the second wafer above the oxide layer.
- 44. (New) The method of claim 43 further comprising oxidizing the first wafer and the second wafer after the bonding.
- 45. (New) The method of claim 30 further comprising forming an alignment window in the second wafer.
- 46. (New) The method of claim 45 further comprising aligning the stationary combteeth assembly and the moving combteeth assembly.
- 47. (New) The method of claim 30 further comprising etching a backside hole in the first wafer, wherein the backside hole exposes the paddle.
- 48. (New) The method of claim 30, wherein the removing includes removing a sacrificial portion of the oxide layer, the sacrificial portion including portions of the oxide layer under the moving combteeth assembly and paddle.
- 49. (New) The method of claim 30 further comprising attaching a transparent plate to an outer surface of the staggered torsional electrostatic combdrive.
- 50. (New) The method of claim 30 wherein the depositing includes depositing an aluminum film on the paddle through a backside hole in the first wafer.

## **CONCLUSION**

Canceled claims 1-27 are now included in the Amendment.

The Examiner is invited to call the undersigned attorney at (650) 493-4935 if a telephone call could help resolve any remaining items.

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Respectfully submitted,

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